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AUTHOR	Marek, Edmund A.; Cavallo, Ann M. L.
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ABSTRACT

This book is about the learning cycle that moves children through a scientific investigation by allowing them first to explore materials, then to construct a concept, and finally to apply this concept to new ideas. It includes integrated learning cycles and learning cycles across the disciplines, and the uses of various questioning strategies, alternative evaluation schemes, and modern technologies. Chapters in Part One, Exploration, include: (1) "The Nature of Science and Science Teaching"; (2) "The Goals of Science Education"; and (3) "The Nature of Science." Part Two, Term Introduction, contains (4) "The Theory Base of Elementary School Science"; Part Three, Concept Application, includes the following chapters: (5) "Developing Learning Cycles"; (6) "Methods and Technologies within the Learning Cycle"; (7) "Measuring Students' Progress in a Learning Cycle Program"; and (8) "Learning Cycles for Elementary School Science." Appendices contain learning cycles for pre-K and kindergarten and protocols for formal operational tasks. (JRH)

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